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Abstract

An electrical energy meter comprises an electrically insulating housing (10) for securing relative to least two mains cables (22,24) each having a conductive core surrounded by a sheath of insulating material. housing includes respective electrical contacts for piercing the insulating sheath of each cable, a current probe for measuring current flowing in at least one of the cables, and circuit means for calculating and displaying electrical energy as a function of the voltage across the contacts and the output of the current probe. An improved current probe is employed comprising a series of Rogowski coils equally spaced around the circumference of a circle, with the gap between two adjacent coils permitting the currentcarrying conductor to be introduced into the loop. alternative current probe employs two such concentric loops of coils, enabling compensation for the effects of external current source pickup.